SEQUENCE LISTING

	(1)	GENE	GENERAL INFORMATION:							
		(i)	APPLI	APPLICANT: President and Fellows of Harvard College						
		(ii)	TITLE	TITLE OF INVENTION: LACTACYSTIN ANALOGS						
5		(iii)	NUME	BER OF SEQUENCES: 17						
		(iv)	CORR	ESPONDENCE ADDRESS:						
10			(A) (B) (C) (D) (E) (F)	ADDRESSEE: Fish & Richardson P.C. STREET: 225 Franklin Street CITY: Boston STATE: MA COUNTRY: USA ZIP: 02110-2804						
		(v)	COMP	PUTER READABLE FORM:						
15			(A) (B) (C) (D)	MEDIUM TYPE: Floppy disk COMPUTER: IBM PC compatible OPERATING SYSTEM: PC-DOS/MS-DOS SOFTWARE: PatentIn Release #1.0, Version #1.30						
		(vi)	CURR	ENT APPLICATION DATA:						
20			(A) (B) (C)	APPLICATION NUMBER: PCT/US96/ FILING DATE: 12-APR-1996 CLASSIFICATION:						
		(vii)	PRIOF	R APPLICATION DATA:						
			(A) (B)	APPLICATION NUMBER: US 08/421,583 FILING DATE: 12-APR-1995						
25		(viii)	ATTO	RNEY/AGENT INFORMATION:						
			(A) (B) (C)	NAME: Freeman, John W. REGISTRATION NUMBER: 29,066 REFERENCE/DOCKET NUMBER: 00246/197W01						
		(ix)	TELE	COMMUNICATION INFORMATION:						
30			(A) (B) (C)	TELEPHONE: 617/542-5070 TELEFAX: 617/542-8906 TELEX: 200154						

	(2)	INFO	ORMATION FOR SEQ ID NO:1:							
		(i)	SEQUENCE (STICS:						
5			(B) TYPE: (C) STRA	TH: 15 amino a amino acid NDEDNESS: no LOGY: linear						
		(ii)	MOLECULE	TYPE: protein						
		(xi)	SEQUENCE I	DESCRIPTION	: SEQ ID NO:1	:				
	Т	hr Thr 1	Thr Leu Ala Phe	Lys Phe Arg H	is Gly Gly Ile Il	le Ala				
10	1		5	10)	15				
	(2)	INFO	RMATION FO	R SEQ ID NO:2	! :					
		(i)	SEQUENCE	CHARACTERI	STICS:					
15			(B) TYPE (C) STRA	TH: 15 amino a : amino acid NDEDNESS: n LOGY: linear						
		(ii)	MOLECULE	TYPE: protein						
		(xi)	SEQUENCE	DESCRIPTION	: SEQ ID NO:2	2:				
	Т	hr Thr 7	Thr Leu Ala Phe	Lys Phe Arg H	is Gly Val Ile V	al Ala				
20	1		5	1	0	15				
	(2)	INFC	RMATION FO	R SEQ ID NO:	3:					
		(i)	SEQUENCE	CHARACTER)	STICS:					
25			(B) TYPE (C) STRA	TTH: 15 amino a : amino acid NDEDNESS: n DLOGY: linear						
		(ii)	MOLECULE	TYPE: protein	,					
		(xi)	SEQUENCE	DESCRIPTION	I: SEQ ID NO:	3:				
	T	Thr Thr	Γhr Leu Ala Phe	Lys Phe Gln H	is Gly Val Ile A	Ala Ala				
30	1		5	1	0	15				

	(2)	INFO	INFORMATION FOR SEQ ID NO:4:							
		(i)	SEQU	ENCE CH	IARACT	ERISTICS	S:			
5			(A) (B) (C) (D)	TYPE: as	H: 15 amin mino acid DEDNESS DGY: line	S: not rele	vant			
		(ii)	MOLI	ECULE T	YPE: prot	ein				
		(xi)	SEQU	IENCE DE	ESCRIPT	ON: SEQ	ID NO:4:			
	Tl	nr Thr T	hr Leu	Ala Phe A	rg Phe Gl	n Gly Gly	lle Ile Val	Ala		
10	1			5		10		15		
	(2)	INFO	RMAT	ION FOR	SEQ ID N	IO:5:				
		(i)	SEQU	JENCE CH	HARACT	ERISTIC	S:			
15			(A) (B) (C) (D)	TYPE: a STRANI	H: 15 ami mino acid DEDNES: DGY: line	l S: not rele	evant			
		(ii)	MOL	ECULE T	YPE: prot	ein				
		(xi)	SEQU	JENCE DI	ESCRIPT	ION: SEÇ	ID NO:5:			
	T	hr Thr T	Thr Val	Gly Ile Th	r Leu Lys	Asp Ala	Val Ile Met	Ala		
20	1		;	5		10		15		
	(2)	INFO	RMAT.	ION FOR	SEQ ID N	NO:6:				
		(i)	SEQU	JENCE CI	HARACT	ERISTIC	S:			
25			(A) (B) (C) (D)	TYPE: a	H: 11 ami mino ació DEDNES OGY: line	l S: not rele	evant			
		(ii)	MOL	ECULE T	YPE: prot	ein				
		(xi)	SEQU	JENCE DI	ESCRIPT	ION: SEC) ID NO:6:			
	Α	sp Ala '	Tyr Ser	Gly Gly S	er Val Se	r Leu Tyr				
30	1			5		10				

	(2)	INFO	ORMATION FOR SEQ ID NO:7:							
		(i)	SEQUENCE CHARACTERISTICS:							
5			(A) (B) (C) (D)		nino acid EDNESS	: not relev	ant			
		(ii)	MOLI	ECULE TY	PE: prote	in				
		(xi)	SEQU	ENCE DE	SCRIPTIO	ON: SEQ	ID NO:7:			
	A	sp Ala 🗆	Γyr Ser (Gly Gly Al	a Val Asn	Leu Tyr	His Val Ar	g		
10	1		:	5		10				
	(2)	INFO	RMAT]	ION FOR S	EQ ID NO	O:8:				
		(i)	SEQU	ENCE CH	ARACTE	RISTICS	:			
15			(A) (B) (C) (D)	STRAND	nino acid	: not relev	/ant			
		(ii)	MOL	ECULE TY	PE: prote	in				
		(xi)	SEQU	JENCE DE	SCRIPTION	ON: SEQ	ID NO:8:			
	A	sp Ser	Гуг Ser	Gly Gly Va	ıl Val Asn	Met Tyr	His Met L	ys		
20	1			5		10				
	(2)	INFO	RMAT	ION FOR S	SEQ ID N	O:9:				
		(i)	SEQU	JENCE CH	IARACTE	ERISTICS	:			
25			(A) (B) (C) (D)	TYPE: ar	I: 21 amin mino acid DEDNESS DGY: linea	: not rele	vant			
		(ii)	MOL	ECULE TY	YPE: prote	ein				
		(xi)	SEQU	JENCE DE	ESCRIPTI	ON: SEQ	ID NO:9:			
	V	/al Ile C	ilu Ile A	sn Pro Tyr	Leu Leu (Gly Thr M	let Ala Gly	Gly Ala		
30	1			5		10		15		

	Α	da Asp (Cys Ser	Phe				
			20					
	(2)	INFO	RMAT	ION FOR S	EQ ID N	O:10:		
		(i)	SEQU	JENCE CHA	ARACTE	ERISTICS	:	
5			(A) (B) (C) (D)	LENGTH: TYPE: am STRANDI TOPOLOG	iino acid EDNESS	: not relev	vant	
		(ii)	MOL	ECULE TY	PE: prote	ein		
10		(xi)	SEQU	JENCE DES	SCRIPTI	ON: SEQ	ID NO:10	:
	V	'al Ile G	lu Ile A	sn Pro Tyr I	.eu Leu (Gly Thr L	eu Ala Gly	Gly Ala
	1		:	5		10		15
	Α	da Asp	Cys Gln	Phe Trp Gl	u Arg			
			20					
15	(2)	INFO	RMAT	ION FOR S	EQ ID N	O:11:		
		(i)	SEQU	JENCE CHA	ARACTI	ERISTICS	:	
20					nino acid EDNESS	S: not rele	vant	
		(ii)	MOL	ECULE TY	PE: prote	ein		
		(xi)	SEQU	JENCE DES	SCRIPTI	ON: SEQ	ID NO:11	:
	V	/al Ile G	lu Ile A	sn Pro Pro T	Гуг Leu I	.eu Gly T	hr Met Ser	Gly Cys
	1			5		10		15
25	A	Ala Ala A	Asp Cys	Gln Tyr Tr	p Glu Ar	g		
			20		25	5		
	(2)	INFO	RMAT	ION FOR S	EQ ID N	O:12:		
		(i)	SEQU	JENCE CH	ARACTI	ERISTICS	S:	
30			(A) (B)	LENGTH TYPE: an				

			(C) (D)	STRANDEI TOPOLOG	ONESS: not relevant: Note: linear	ant			
		(ii)	MOLE	ECULE TYPI	E: protein				
		(xi)	SEQU	ENCE DESC	RIPTION: SEQ I	D NO:12:			
5	Gl	y Tyr S	er Tyr A	er Tyr Asp Leu Glu Val Glu Glu Ala Tyr Asp L					
	1		4	5	10	15			
	(2)	INFO	RMATI	ON FOR SEC	Q ID NO:13:				
		(i)	SEQU	ENCE CHAI	RACTERISTICS:				
10			(A) (B) (C) (D)	TYPE: amir	ONESS: not relev	ant			
		(ii)	MOLI	ECULE TYPI	E: protein				
		(xi)	SEQU	IENCE DESC	RIPTION: SEQ	ID NO:13:			
15	GI	T C							
13	Oi	y ryr s	er Asp	Leu Glu Val	Glu Gln Ala Tyr A	Asp Leu Ala Arg			
13	1	y 1 yr S	-	Leu Glu Val (5	Glu Gln Ala Tyr A 10	Asp Leu Ala Arg 15			
13		•	:		10				
13	1	•	: RMAT	5 ON FOR SE	10	15			
20	1	INFO	: RMAT	5 ION FOR SEC JENCE CHAI LENGTH: 1 TYPE: amir	10 Q ID NO:14: RACTERISTICS: 6 amino acids to acid DNESS: not relev	15			
	1	INFO	SEQU (A) (B) (C) (D)	ON FOR SECTION FOR SECTION FOR SECTION	10 Q ID NO:14: RACTERISTICS: 6 amino acids 10 acid DNESS: not relev Y: linear	15			
	1	INFO	SEQU (A) (B) (C) (D) MOL	ION FOR SECTION FOR SECULE TYPE	10 Q ID NO:14: RACTERISTICS: 6 amino acids 10 acid DNESS: not relev Y: linear	15			
	(2)	INFO	SEQU (A) (B) (C) (D) MOLI	ION FOR SECTION FOR SECTION FOR SECTION FOR SECTION TOPOLOGIST SECTION FOR SEC	10 Q ID NO:14: RACTERISTICS: 6 amino acids no acid DNESS: not relev Y: linear E: protein CRIPTION: SEQ	15			
20	(2)	INFO	SEQU (A) (B) (C) (D) MOLI	ION FOR SECTION FOR SECTION FOR SECTION FOR SECTION TOPOLOGIST SECTION FOR SEC	10 Q ID NO:14: RACTERISTICS: 6 amino acids no acid DNESS: not relev Y: linear E: protein CRIPTION: SEQ	15 ant ID NO:14:			
20	1 (2)	INFO	(A) (B) (C) (D) MOLI SEQU	ION FOR SECTION FOR SECTION FOR SECTION FOR SECTION TOPOLOGION SECULE TYPE SECTION DESCRIPTION FOR SECTION DESCRIPTION FOR SECTION SEC	10 Q ID NO:14: RACTERISTICS: 6 amino acids to acid DNESS: not relev Y: linear E: protein CRIPTION: SEQ Pro Glu Glu Ala	15 ant ID NO:14: Γyr Asp Leu Gly Arg			
20	1 (2) Gi	INFO	RMATI SEQU (A) (B) (C) (D) MOLI SEQU Arg Pro	ION FOR SECTION FO	10 Q ID NO:14: RACTERISTICS: 6 amino acids to acid DNESS: not relev Y: linear E: protein CRIPTION: SEQ Pro Glu Glu Ala	15 ant ID NO:14: Γyr Asp Leu Gly Arg 15			

			(C) (D)	STRANDE TOPOLOC	EDNESS: not re GY: linear	elevant	
		(ii)	MOL	ECULE TYP	PE: protein		
		(xi)	SEQU	JENCE DES	CRIPTION: SI	EQ ID NO:15	5 :
5	T	hr Thr I	le Ala (Gly Val Val 7	Гуг Lys Asp Gl	y Ile Val Leu	Gly Ala
	1			5	10		15
	A	sp Thr	Arg				
	(2)	INFO	RMAT	ION FOR SI	EQ ID NO:16:		
10		(i)	SEQU	JENCE CHA	ARACTERIST	CS:	
			(A) (B) (C) (D)	TYPE: am	EDNESS: not r		
15		(ii)	MOL	ECULE TY	PE: protein		
		(xi)	SEQ	UENCE DES	CRIPTION: S	EQ ID NO:16	5 :
	X	aa Xaa	Ile Ala	Gly Val Val	Tyr Lys Asp C	Gly Ile Val Le	u Gly Ala
	1			5	10		15
20	A	sp Thr	Arg				
20	(2)	INFO	ORMAT	TION FOR SI	EQ ID NO:17:		
		(i)	SEQ	UENCE CHA	ARACTERIST	ICS:	
25			(A) (B) (C) (D)	TYPE: am	EDNESS: not 1		
		(ii)	MOI	LECULE TY	PE: protein		
		(xi)	SEQ	UENCE DES	SCRIPTION: S	EQ ID NO:1	7:
	Т	hr Thr	Ile Ala	Gly Val Val	Tyr Lys		
30	1			5			